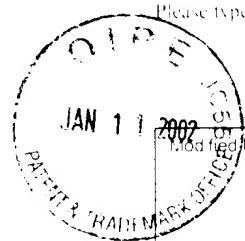


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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	09/775,482
	Filing Date	02/02/01
	First Named Inventor	Shimkets
	Group Art Unit	1632
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	15966-577 A CIP 3 (Cura-77 A CIP 3)

U. S. PATENT DOCUMENTS

Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	A1	4,816,567	3/28/89	Cabilly, et al.	-	-	
	A2	5,225,539	7/6/93	Winter	-	-	
	A3	5,545,807	8/13/96	Surani, et al.	-	-	
	A4	5,545,806	8/13/96	Lonberg, et al.	-	-	
	A5	5,569,825	10/29/96	Lonberg, et al.	-	-	
	A6	5,625,126	4/29/97	Lonberg, et al.	-	-	
	A7	5,939,598	8/17/99	Kucherlapati, et al.	-	-	
	A8	5,916,771	6/29/99	Hori, et al.	-	-	
	A9	5,350,836	09/27/94	Kopchick et al.	-	-	

FOREIGN PATENT DOCUMENTS

Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No
	B1	WO 96/41892	Mileham, et al.	12/27/96	
	B2	WO 00/27879	Eriksson, et al.	5/18/00	
	B3	WO 94/02602	Kuncherlapati, et al.	2/3/94	
	B4	WO 96/33735	Kuncherlapati, et al.	10/31/96	
	B5	WO 96/34096	Kuncherlapati, et al.	10/31/96	
	B6	WO 99/53049	Davis, et al.	10/21/99	
	B7	WO 99/47677	Genentech, Inc	09/23/99	
	B8	WO 00/34474	Zymogenetics, Inc	06/15/00	
	B9	WO 00/66735	Zymogenetics, Inc.	11/09/00	
	B10	WO 01/00878	Millennium Pharmaceuticals, Inc.	01/04/01	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C1	Alon, T., I. Hemo, et al. (1995). "Vascular endothelial growth factor acts as a survival factor for newly formed retinal vessels and has implications for retinopathy of prematurity." <i>Nat Med</i> 1(10): 1024-8.
	C2	Athanassiades, A. and P. K. Lala (1998). "Role of placenta growth factor (PIGF) in human extravillous trophoblast proliferation, migration and invasiveness." <i>Placenta</i> 19(7): 465-73.

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
JAN 1 2002 RAD/AMARK	C3	Bellamy, W. T., L. Richter, et al. (1999). "Expression of vascular endothelial growth factor and its receptors in hematopoietic malignancies." <i>Cancer Res</i> 59(3): 728-33.
	C4	Betsholtz, et al. (1986). "cDNA sequence and chromosomal localization of human platelet-derived growth factor A-chain and its expression in tumour cell lines." <i>Nature</i> 320(6064): 695-9.
	C5	Bontron, D. T., C. C. Morton, et al. (1988). "Platelet-derived growth factor A chain: gene structure, chromosomal location, and basis for alternative mRNA splicing." <i>Proc Natl Acad Sci U S A</i> 85(5): 1492-6.
	C6	Carmeliet, P., M. G. Lampugnani, et al. (1999). "Targeted deficiency or cytosolic truncation of the VE-cadherin gene in mice impairs VEGF-mediated endothelial survival and angiogenesis." <i>Cell</i> 98(2): 147-57.
	C7	Collins, T., D. Ginsburg, et al. (1985). "Cultured human endothelial cells express platelet-derived growth factor B chain: cDNA cloning and structural analysis." <i>Nature</i> 316(6030): 748-50.
	C8	Cote, R. M., DM Houghton, AN; Beattie, EJ; Oettgen, HF; Old, LJ (1983). "Generation of human monoclonal antibodies reactive with cellular antigens." <i>Proc. Natl. Acad. Sci. USA</i> 80: 2026-2030.
	C9	Dalla-Favera, R., E. P. Gelmann, et al. (1981). "A human onc gene homologous to the transforming gene (v-sis) of simian sarcoma virus." <i>Nature</i> 292(5818): 31-5.
	C10	Doolittle, R. F., M. W. Hunkapiller, et al. (1983). "Simian sarcoma virus onc gene, v-sis, is derived from the gene (or genes) encoding a platelet-derived growth factor." <i>Science</i> 221(4607): 275-7.
	C11	Ferrara, N. (1999). "Vascular endothelial growth factor: molecular and biological aspects." <i>Curr Top Microbiol Immunol</i> 237: 1-30.
	C12	Fishwild, D. M., S. L. O'Donnell, et al. (1996). "High-avidity human IgG kappa monoclonal antibodies from a novel strain of minilocus transgenic mice [see comments]." <i>Nat Biotechnol</i> 14(7): 845-51.
	C13	Folkman, J. (1995). "Angiogenesis in cancer, vascular, rheumatoid and other disease." <i>Nat Med</i> 1(1): 27-31.
	C14	Gerber, H. P., A. McMurtrey, et al. (1998). "Vascular endothelial growth factor regulates endothelial cell survival through the phosphatidylinositol 3'-kinase Akt signal transduction pathway. Requirement for Flk-1/KDR activation." <i>J Biol Chem</i> 273(46): 30336-43.
	C15	Gerber, H. P., V. Dixit, et al. (1998). "Vascular endothelial growth factor induces expression of the antiapoptotic proteins Bcl-2 and A1 in vascular endothelial cells." <i>J Biol Chem</i> 273(21): 13313-6.
	C16	Hamada, et al., 2000 "A novel gene derived from developing spinal cords, SCDGF, is a unique member of the PDGF BEFF family." <i>FEBS Lett.</i> 475(2): 970-102. GenBank Accession Number: BAB03265
	C17	Helmlinger, et al. (2000). "Formation of endothelial cell networks." <i>Nature</i> 405(6783): 139-41.
	C18	Hermansson, M., M. Nister, et al. (1988). "Endothelial cell hyperplasia in human glioblastoma: coexpression of mRNA for platelet-derived growth factor (PDGF) B chain and PDGF receptor suggests autocrine growth stimulation." <i>Proc Natl Acad Sci U S A</i> 85(20): 7748-52.
	C19	Holash, J., P. C. Maisonpierre, et al. (1999). "Vessel cooption, regression, and growth in tumors mediated by angiopoietins and VEGF." <i>Science</i> 284(5422): 1994-8.
	C20	Hoogenboom, H. R. and G. Winter (1992). "By-passing immunisation. Human antibodies from synthetic repertoires of germline VH gene segments rearranged in vitro." <i>J Mol Biol</i> 227(2): 381-8.
	C21	Hopp, T. P. and K. R. Woods (1981). "Prediction of protein antigenic determinants from amino acid sequences." <i>Proc Natl Acad Sci U S A</i> 78(6): 3824-8.
	C22	Jones, P. T., P. H. Dear, et al. (1986). "Replacing the complementarity-determining regions in a human antibody with those from a mouse." <i>Nature</i> 321(6069): 522-5.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
APR 1 2002 SEARCHED	C23	Josephs, S. F., C. Guo, et al. (1984). "Human-proto-oncogene nucleotide sequences corresponding to the transforming region of simian sarcoma virus." <u>Science</u> 223(4635): 487-91.
	C24	Katoh, M. and M. Terada (1996). "Overexpression of bone morphogenic protein (BMP)-4 mRNA in gastric cancer cell lines of poorly differentiated type." <u>J Gastroenterol</u> 31(1): 137-9.
	C25	Kelly, J. D., E. W. Raines, et al. (1985). "The B chain of PDGF alone is sufficient for mitogenesis." <u>Embo J</u> 4(13A): 3399-405.
	C26	Kessler, E., K. Takahara, et al. (1996). "Bone morphogenetic protein-1: the type I procollagen C-proteinase [see comments]." <u>Science</u> 271(5247): 360-2.
	C27	Kohler, G. and C. Milstein (1975). "Continuous cultures of fused cells secreting antibody of predefined specificity." <u>Nature</u> 256(5517): 495-7.
	C28	Kozbor, D. and J. Roder (1983). "The production of monoclonal antibodies from human lymphocytes." <u>Immunology Today</u> 4(3): 72-79.
	C29	Kozbor, D., P. Tripputi, et al. (1984). "A human hybrid myeloma for production of human monoclonal antibodies." <u>J Immunol</u> 133(6): 3001-5.
	C30	Kyte, J. and R. F. Doolittle (1982). "A simple method for displaying the hydrophobic character of a protein." <u>J Mol Biol</u> 157(1): 105-32.
	C31	Li, et al., 2000 "PDGF-C is a novel protease-activated ligand for the PDGF alpha receptor." <u>Nat. Cell Biol.</u> Direct Submission. GenBank Accession Number: AAF80597
	C32	Li, J. M., J. S. Han, et al. (1999). "A novel gene delivery system targeting cells expressing VEGF receptors." <u>Cell Res</u> 9(1): 11-25.
	C33	Lonberg, N. and D. Huszar (1995). "Human antibodies from transgenic mice." <u>Int Rev Immunol</u> 13(1): 65-93.
	C34	Lonberg, N., L. D. Taylor, et al. (1994). "Antigen-specific human antibodies from mice comprising four distinct genetic modifications [see comments]." <u>Nature</u> 368(6474): 856-9.
	C35	Maeno, et al., 1993 "Cloning and expression of cDNA encoding <i>Zenopus laevis</i> bone morphogenetic protein-1 during early embryonic development." <u>Gene</u> 134(2): 257-261. GenBank Accession Number: P98070
	C36	Marks, J. D., A. D. Griffiths, et al. (1992). "By-passing immunization: building high affinity human antibodies by chain shuffling." <u>Biotechnology (N Y)</u> 10(7): 779-83.
	C37	Marks, J. D., H. R. Hoogenboom, et al. (1991). "By-passing immunization. Human antibodies from V-gene libraries displayed on phage." <u>J Mol Biol</u> 222(3): 581-97.
	C38	Marzo, I., C. Brenner, et al. (1998). "The central role of the mitochondrial megachannel in apoptosis: evidence obtained with intact cells, isolated mitochondria, and purified protein complexes." <u>Biomed Pharmacother</u> 52(6): 248-51.
	C39	Masood, R., J. Cai, et al. (1997). "Vascular endothelial growth factor/vascular permeability factor is an autocrine growth factor for AIDS-Kaposi sarcoma." <u>Proc Natl Acad Sci U S A</u> 94(3): 979-84.
	C40	Millauer, B., L. K. Shawver, et al. (1994). "Glioblastoma growth inhibited in vivo by a dominant-negative Flk-1 mutant." <u>Nature</u> 367(6463): 576-9.
	C41	Morrison, S. L. (1994). "Immunology. Success in specification [news; comment]." <u>Nature</u> 368: 812-3.
	C42	Munson, P. J. and D. Rodbard (1980). "Ligand: a versatile computerized approach for characterization of ligand-binding systems." <u>Anal Biochem</u> 107(1): 220-39.
V	C43	Neuberger, M. (1996). "Generating high-avidity human Mabs in mice [news; comment]." <u>Nat Biotechnol</u> 14(7): 826.

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
		Poltorak, Z., T. Cohen, et al. (1997). "VEGF145, a secreted vascular endothelial growth factor isoform that binds to extracellular matrix." <i>J Biol Chem</i> 272(11): 7151-8.
C45		Riechmann, et al. (1988). "Reshaping human antibodies for therapy." <i>Nature</i> 332(6162): 323-7.
C46		Risau, W. (1995). "Differentiation of endothelium." <i>Faseb J</i> 9(10): 926-33.
C47		Risau, W. and I. Flamme (1995). "Vasculogenesis." <i>Annu Rev Cell Dev Biol</i> 11: 73-91.
C48		Rocchigiani, et al., 1998 "Human FIGF: cloning, gene structure, and mapping to chromosome Xp22.1 between the PIGA and the GRPR genes." <i>Genomics</i> 47: 207-216. GenBank Accession Number: O43915
C49		Romashkova, J. A. and S. S. Makarov (1999). "NF-kappaB is a target of AKT in anti-apoptotic PDGF signalling [see comments]." <i>Nature</i> 401(6748): 86-90.
C50		Shimizu, A., K. P. O'Brien, et al. (1999). "The dermatofibrosarcoma protuberans-associated collagen type Ialpha1 platelet-derived growth factor (PDGF) B-chain fusion gene generates a transforming protein that is processed to functional PDGF- BB." <i>Cancer Res</i> 59(15): 3719-23.
C51		Simon, M. P., F. Pedeutour, et al. (1997). "Deregulation of the platelet-derived growth factor B-chain gene via fusion with collagen gene COL1A1 in dermatofibrosarcoma protuberans and giant-cell fibroblastoma." <i>Nat Genet</i> 15(1): 95-8.
C52		Speirs, V. and S. L. Atkin (1999). "Production of VEGF and expression of the VEGF receptors Flt-and KDR in primary cultures of epithelial and stromal cells derived from breast tumours." <i>Br J Cancer</i> 80(5-6): 898-903.
C53		Tischer, E., R. Mitchell, et al. (1991). "The human gene for vascular endothelial growth factor. Multiple protein forms are encoded through alternative exon splicing." <i>J Biol Chem</i> 266(18): 11947-54.
C54		Tsai, et al., 1998 "Fallotenein, a novel growth factor like gene identified in human uterus." GenBank Accession Number: Q9UL22
C55		Tsai, et al., 1999 "cDNA cloning of fallotenein from mouse ovary." GenBank Accession Number: Q9QY71
C56		Tsai, et al., 2000 "Identification of a novel platelet-derived growth factor-like gene, fallotenein, in the human reproductive tract." <i>Biochim. Biophys. Acta</i> 1492(1) 196-202. GenBank Accession Number: AAF00049
C57		Tsai, et al., 2000 "Identification of a novel platelet-derived growth factor-like gene, fallotenein, in the human reproductive tract." <i>Biochim. Biophys. Acta</i> 1492(1) 196-202. GenBank Accession Number: AF091434
C58		Verhoeven, M., C. Milstein, et al. (1988). "Reshaping human antibodies: grafting an antilysozyme activity." <i>Science</i> 239(4847): 1534-6.
C59		Warren, R. S., H. Yuan, et al. (1995). "Regulation by vascular endothelial growth factor of human colon cancer tumorigenesis in a mouse model of experimental liver metastasis." <i>J Clin Invest</i> 95(4): 1789-97.
C60		Wilcox, J. N., K. M. Smith, et al. (1988). "Platelet-derived growth factor mRNA detection in human atherosclerotic plaques by in situ hybridization." <i>J Clin Invest</i> 82(3): 1134-43.
C61		Wilkinson, D. 2000. "Ultimate Abs: Immunochemical techniques inspire development of new antibody purification methods." <i>The Scientist</i> . 14(8): 25-28.
C62		Wozney, et al., 1988 "Novel regulators of bone formation: molecular clones and activities." <i>Science</i> 242(4885): 1528-1534. GenBank Accession Number: PIR-ID:A58788

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
C63		Wozney, J. M., V. Rosen, et al. (1988). "Novel regulators of bone formation: molecular clones and activities." <u>Science</u> 242(4885): 1528-34.
C64		Yamada, et al., "Molecular cloning of a novel vascular endothelial growth factor, VEGF-D." <u>Genomics</u> : 42:483-488. GenBank Accession Number: O35251
C65		Yoshikawa, H., K. Takaoka, et al. (1985). "Clinical significance of bone morphogenetic activity in osteosarcoma. A study of 20 cases." <u>Cancer</u> 56(7): 1682-7.
C66		Yuan, F., Y. Chen, et al. (1996). "Time-dependent vascular regression and permeability changes in established human tumor xenografts induced by an anti-vascular endothelial growth factor vascular permeability factor antibody." <u>Proc Natl Acad Sci U S A</u> 93(25): 14765-70.
C67		Brenner (1999). <u>Trends in Genetics</u> 15(4): 132-133.
C68		Doerks et al. (1998). <u>Trends in Genetics</u> 14: 248-250.
C69		Locus Database Accession Number: AA488780 (August, 1997).
C70		Skolnick et al. (2000). <u>Trends in Biotechnology</u> 18: 34-39.
C71		Smith et al. (1997). <u>Nature Biotech.</u> 15: 1222-1223.
C72		Vukicevic et al. (1996). <u>Proc. Natl. Acad. Sci. USA</u> 93: 9021-9026.
C73		<u>Invitation to Pay Additional Fees, mailed November 27, 2001.</u>

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	6/27/01
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